

CLAIMS:

1. Pickup unit (1) for reading and/or writing data on a disk (2), comprising a lens (5) in a lens holder (6) which is connected to a frame (7) of the pickup unit (1) by at least one elastic support member (8) extending between a mounting position (9) at the lens holder (6) and a mounting position (10) at the frame (7), the lens holder (6) being movable with respect to the frame (7) in a focusing direction (z) of the lens (5) towards and away from the disk (2) in that the at least one elastic support member (8) is bent under the action of an actuator (11, 12, 13) acting between the lens holder (6) and the frame (7), wherein at least in an inactivated state of the actuator (11, 12, 13) the mounting position (9) of the at least one elastic support member (8) at the lens holder (6) is located closer to the disk (2) than the respective mounting position (10) of the at least one elastic support member (8) at the frame, as seen in the focusing direction (z) of the lens (5).
2. Pickup unit (1) according to claim 1, wherein the at least one elastic support member (8) is substantially rectilinear and has an inclined position with respect to the plane of the disk (2).
3. Pickup unit (1) according to claim 1 or 2, comprising a plurality of elastic support members (8), preferably four or six elastic support members (8).
4. Pickup unit (1) according to claim 3, wherein each elastic support member (8) forms part of a cooperating group (14, 15) of elastic support members, and wherein the mounting positions (9, 10) of the elastic support members within the cooperating groups (14 or 15) are spaced apart in the same direction and over an equal distance at the lens holder (6) and at the frame (7).
5. Pickup unit (1) according to claim 3 or 4, wherein for each cooperating group (14, 15) of elastic support members (8) their mounting positions (9) at the lens holder (6) are symmetrically spaced apart in the focusing direction (z) of the lens (5) with respect to the center of mass of the lens holder (6).

6. Pickup unit (1) according to any one of claims 3 to 5, wherein each elastic support member (8) forms part of a cooperating group (14, 15) of elastic support members (8), and wherein the two cooperating groups (14, 15) of elastic support members (8) are
5 positioned at a distance from each other, symmetrically with respect to a plane extending through the center of the lens (5) in the focusing direction (z) and in a tangential direction (x) of the lens (5) with respect to the disk (2).
7. Pickup unit (1) according to any one of claim 3 to 6, wherein the elastic
10 support members (8) are wire members.
8. Pickup unit (1) according to any one of the preceding claims, wherein the at least one elastic support member (8) is made of an electrically conducting material.
- 15 9. Disk drive unit comprising a disk drive and the pickup unit (1) according to any one of the preceding claims.